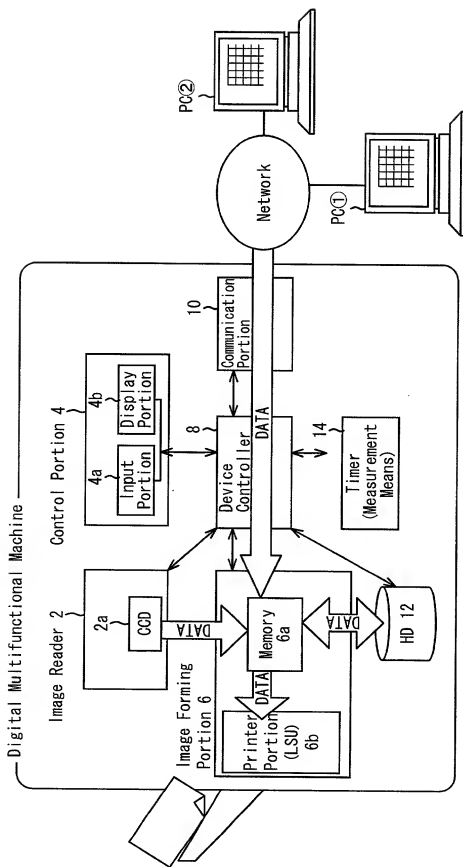FIG. 1

FIG. 2

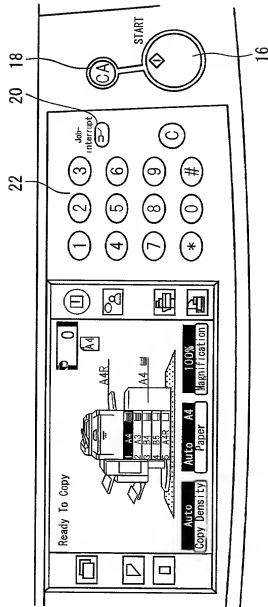## FIG. 3A

Display In Waiting Mode
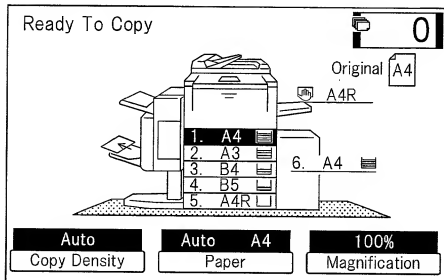
FIG. 3B

Display After Printing

FIG. 4

Ready To Copy | 0

Original A4
A4R

1. A4
2. A3
3. B4
4. B5
5. A4R

6. A4

| Auto | Auto A4 | 100% |
| Copy Density | Paper | Magnification |

FIG. 5

| 0

Original A4

Data Erasing In Progress,
so please wait for a while.

0%   50%   100%

5. A4R

| Auto | Auto A4 | 100% |
| Copy Density | Paper | Magnification |

FIG. 6

FIG. 7

FIG. 8

S8-1 — Copy key actuated? — NO

YES

S8-2 — Read originals

S8-3 — Store into the storage

S8-4 — Print out

S8-5 — Print end? — YES

NO

S8-6 — Cancel (CA) key? — YES

NO

S8-7 — Erase data in the storage

Start

END
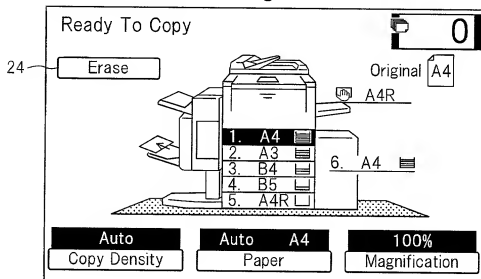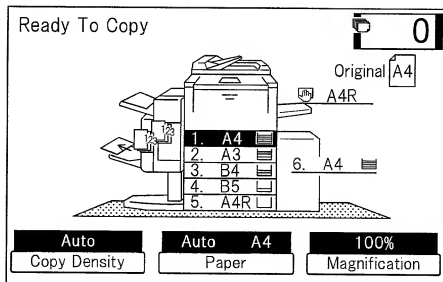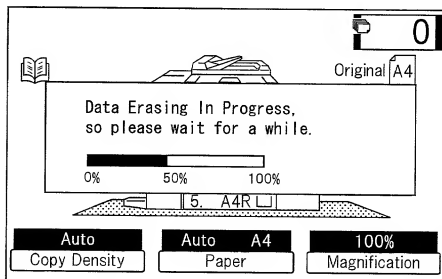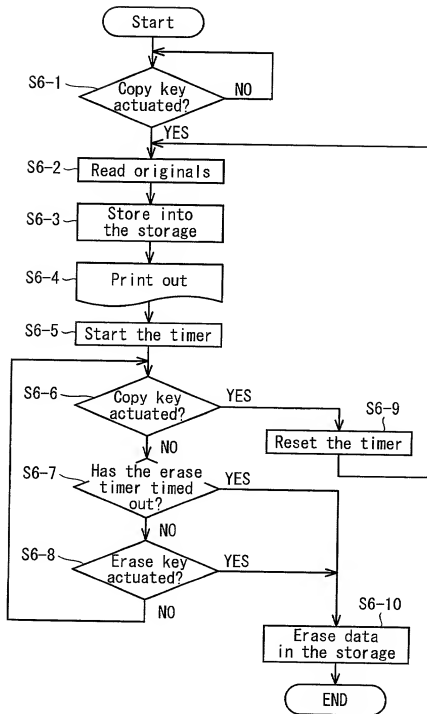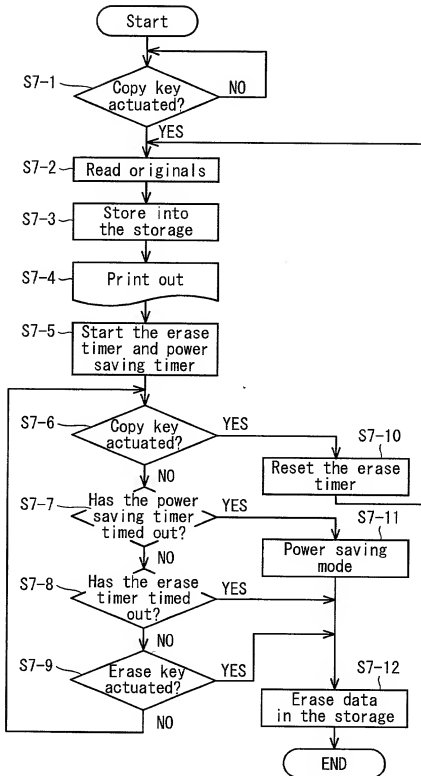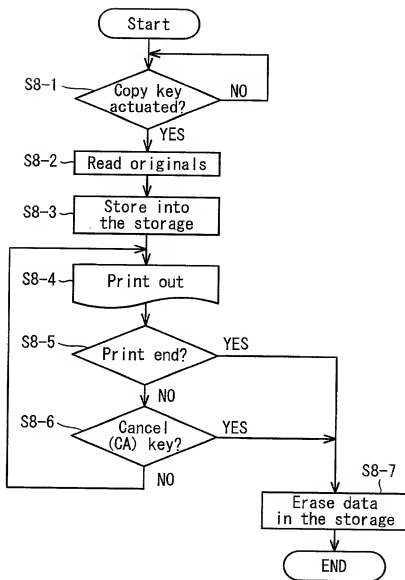
FIG. 9
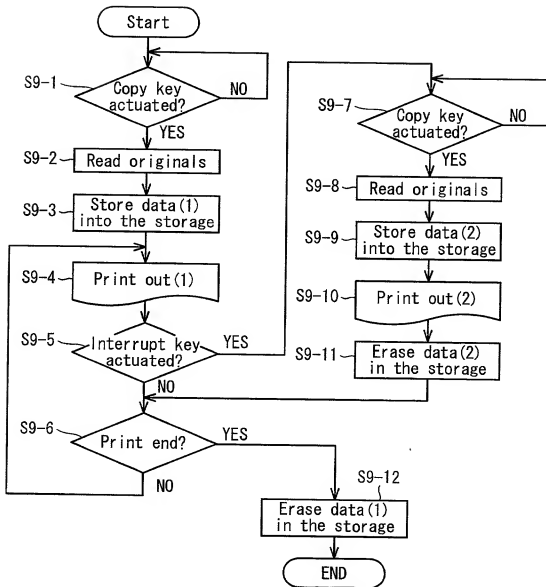
FIG. 10
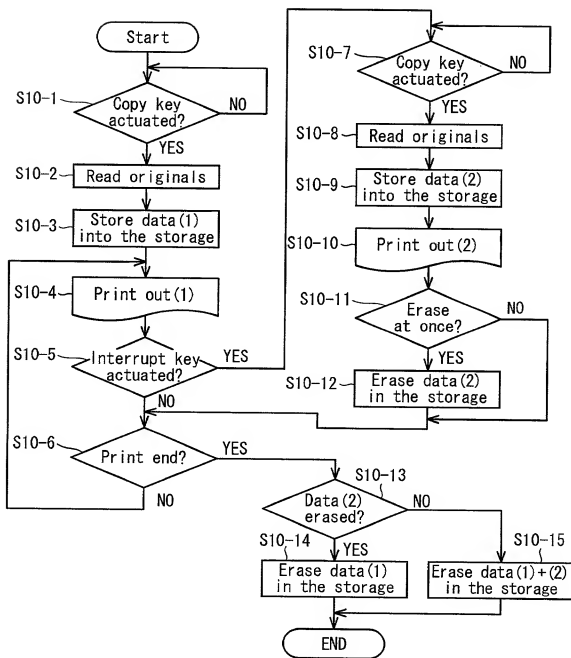
FIG. 11

Data erase setup

Time set
┌─────────┐
│ 12:10 │
└─────────┘

☐ Automatic set

Continuous
idle time   ┌─────────┐
             │ 00:10 │
             └─────────┘

☐ Learning
  function

┌──────┐
│ Next │
└──────┘
┌──────┐
│ OK │
└──────┘

FIG. 12

FIG. 13

```
                    ┌─────────┐
                    │  Start  │
                    └────┬────┘
                         │
        ┌────────────────┴─────────┐
S13-1 ─ │ Store the time           │ ⌐ FIG. 14
        │   of activation          │ ↙
        └────────────────┬─────────┘
        ┌────────────────┴─────────┐
S13-2 ─ │ Set up the erase         │ ⌐ FIG. 16
        │   time slot              │ ↙
        └────────────────┬─────────┘
                         │
                    ╱────┴────╲        NO
S13-3 ─        ╱  Copy key    ╲──────────────┐
               ╲   actuated?  ╱              │
                    ╲────┬────╱              │
                      YES│                   │
        ┌────────────────┴─────────┐         │
S13-4 ─ │ Store the time           │ ⌐FIG.14 │              S13-9
        │   of copy start          │ ↙       │          ╱─────┴─────╲   NO
        └────────────────┬─────────┘         └────────╱ Has the erase ╲──┐
        ┌────────────────┴─────────┐                  ╲ set time been  ╱  │
S13-5 ─ │   Read originals         │                   ╲  reached?   ╱    │
        └────────────────┬─────────┘                    ╲────┬────╱       │
        ┌────────────────┴─────────┐                       YES│           │
S13-6 ─ │ Store into               │                          │           │
        │   the storage            │                          │           │
        └────────────────┬─────────┘                          │           │
        ┌────────────────┴─────────┐                          │           │
S13-7 ─ │      Print out           │                          │           │
        └────────────────┬─────────┘                          │           │
        ┌────────────────┴─────────┐                          │           │
S13-8 ─ │ Store the time           │ ⌐FIG.14                  │           │
        │   of print end           │ ↙      S13-10            │           │
        └────────────────┬─────────┘    ┌─────────────┐       │           │
                         │              │ Erase data  │───────┘           │
                         │              │in the storage│                  │
                         │              └─────────────┘                   │
                         └──────────────────────────────────────────────-┘
```
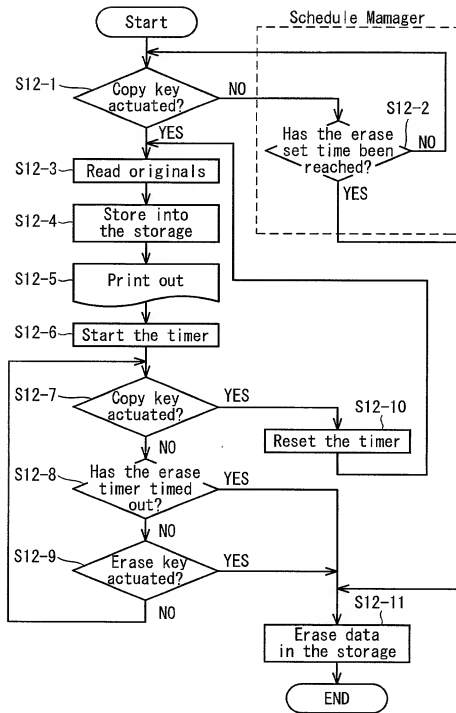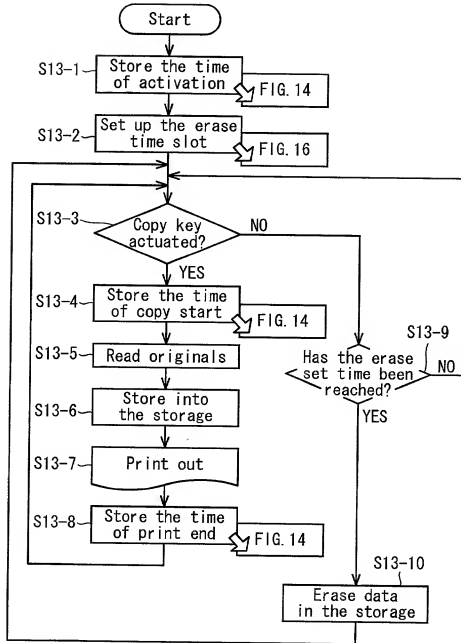
FIG. 14

Copy Time Management Table

	Yesterday	2days ago	3days ago	4days ago	...	6days ago
	Power ON 7:50	Power ON 7:55	Power ON 7:50	Power ON 7:53	...	Power ON 7:50
	Start 8:00	Start 8:00	Start 8:00	Start 8:00	...	Start 8:00
	End 8:10	End 8:10	End 8:10	End 8:10	...	End 8:10
	Start 9:30	Start 9:30	Start 9:30	Start 9:30	...	Start 9:30
	End 9:50	End 9:50	End 9:50	End 9:50	...	End 9:50
	⋮	⋮	⋮	⋮		⋮
	End 17:50	End 18:10	End 16:40	End 17:30	...	End 17:10

FIG. 15

Period of copying
■ ← Copy start time
← Copy end time

◀12:00
◀13:00

Start

S15-1 — Combine copy time slots in Fig. 14

S15-2 — Extract the idle slot

·Extract idle time slots continuing for a period equal to or longer than a preset duration (e.g..10 minutes)
·Exclude the first and last idle time slots
·Select the longest time slot
·Give priority to the time duration in which the machine have been least used referring to Fig.16

S15-3 — Store the idle time slot

FIG.16

End

FIG. 16

Idle Time Storage Table

Yesterday	2days ago	3days ago	4days ago	···	6days ago
12:00	12:10	12:05	12:10	···	12:00
13:00	13:10	13:14	13:10	···	13:10